

# Battelle CCDS Critical Care Decontamination System™



## DELIVERING CRITICAL VALUE

The Battelle CCDS Critical Care Decontamination System™ addresses the current shortage of critical Personal Protective Equipment (PPE) across the United States. Battelle CCDS™ is designed to decontaminate N95 respirators for the novel coronavirus (SARS-CoV-2).

### THE PROCESS

Battelle CCDS™ can decontaminate thousands of N95 respirators using high concentration, vapor phase hydrogen peroxide. The respirators are exposed for hours at the validated concentration level to decontaminate biological contaminants, including the SARS-CoV-2. CCDS™ can decontaminate the same respirator up to 20 times without degrading N95 filter mask performance.

Healthcare systems will collect worn respirators each day in accordance with an approved procedure, and the PPE will be labeled with a barcoded serial number that will be used for tracking the PPE chain-of-custody throughout the

decontamination process. This procedure ensures that the hospital system receives its own respirators back.

### REGULATORY, SAFETY AND EFFICACY

Battelle CCDS™ draws on decades of research and is grounded on an FDA study Battelle completed in 2016 to investigate decontamination and durability of N95 respirators in the event of a pandemic. Battelle is currently conducting research to validate that other materials, such as surgical masks and ventilator components, will continue to function as designed following multiple decontamination cycles.

## Battelle CCDS™ Process

COLLECTION	RECEIPT	PROCESS	RETURN
<ul style="list-style-type: none"><li>Health care centers label and collect PPE</li><li>PPE is double bagged and boxed</li><li>PPE is shipped to the decontamination location using commercial carrier</li></ul>	<ul style="list-style-type: none"><li>Battelle receives and logs PPE into inventory database using barcodes</li><li>PPE is staged for decontamination</li></ul>	<ul style="list-style-type: none"><li>Battelle loads PPE into decontamination chamber</li><li>PPE undergoes a decontamination cycle</li><li>PPE is verified to ensure it is free of residual decontaminate</li><li>PPE is packaged and staged for return</li></ul>	<ul style="list-style-type: none"><li>PPE is returned to original customer via commercial carrier</li></ul>

To learn more about how to enroll in the Battelle CCDS™ system, please contact Battelle directly at 800.201.2011 | [solutions@battelle.org](mailto:solutions@battelle.org)

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